CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims

1. (Currently Amended) For a factory process comprising a plurality of tasks, a method to permit monitoring and controlling of the factory process, the method comprising:
displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole; and
selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, computer generated representation of the respective task, wherein at least one of the tasks for the factory process has a controllable parameter and the method includes changing the controllable parameter of the task to affect control in the factory process.

2. (Original) The method of claim 1 including selectively displaying data representative of a status of the displayed process.

3. (Original) The method of claim 1 including selectively displaying data representative of a status of one of the displayed tasks.

4. (Original) The method of claim 1 including selectively displaying data representative of a status a plurality of the displayed tasks.

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Previously Presented) For a factory process comprising a plurality of tasks, a method to permit monitoring of the process, the method comprising:

displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole;

selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, computer-generated representation of the respective task;

sensing a status of one of the tasks;

determining if the sensed status is acceptable; and

automatically displaying the task if the sensed status is not acceptable.

13. (Currently Amended) For a factory process comprising a plurality of tasks, a method to permit monitoring of the process, the method comprising:

displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole;

selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, computer-generated representation of the respective task;

sensing a status of a plurality of the tasks; ~~and~~

determining if the sensed status of each of the plurality of tasks is acceptable; and

automatically displaying one of the plurality of tasks if the sensed status of the one of the plurality of tasks is determined not to be acceptable.

14. (Currently Amended) For a factory process comprising a plurality of tasks, a method to permit monitoring and controlling of the factory process, the method comprising:

displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole;

selecting one of the tasks; and wherein the selected task is a controllable parameter that can be changed to selectively affect control of the factory process.

15. The method of claim 14 including displaying data representative of a status of a plurality of the displayed tasks.

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Currently Amended) For a factory process comprising a plurality of tasks, a computer readable medium containing program instructions for execution by a processor to cause the processor to perform steps to permit monitoring and controlling of the factory process on a video display, the method comprising:

displaying the factory process in real-time as a three-

dimensional, free-camera, computer generated representation of the process as a whole; and

selectively displaying each of the tasks in real-time as a three-dimensional, free- camera, computer generated representation of the respective task~~;,,~~ wherein at lest one of the tasks for the factory process has a controllable parameter and the method includes changing the controllable parameter of the task to affect control in the factory process.

24. (Original) The method of claim 23 including selectively displaying data representative of a status of the displayed process.

25. (Original) The method of claim 23 including selectively displaying data representative of a status of one of the displayed tasks.

26. (Original) The method of claim 23 including selectively displaying data representative of a status a plurality of the displayed tasks.

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Previously Presented) For a factory process comprising a

plurality of tasks, a computer readable medium containing program instructions for execution by a processor to cause the processor to perform steps to permit monitoring of the process on a video display, the method comprising:

displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole;

selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, a computer generated representation of the respective task;

sensing a status of one of the tasks;

determining if the sensed status is acceptable; and

automatically displaying the task if the sensed status is not acceptable.

35. (Currently Amended) For a factory process comprising a plurality of tasks, a computer readable medium containing program instructions for execution by a processor to cause the processor to perform steps to permit monitoring of the process on a video display, the method comprising:

displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole;

selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, a computer generated representation of the respective task;

sensing a status of a plurality of the tasks; ~~and~~

determining if the sensed status of each of the plurality of tasks is acceptable; and

automatically displaying one of the plurality of tasks if the sensed

status is determined not to be acceptable.

36. (Canceled)

37. (Canceled)

38. (Canceled)

39. (Canceled)

40. (Canceled)

41. (Canceled)

42. (Canceled)

43. (Canceled)

44. (Canceled)

45. (Canceled)

46. (Canceled)

47. (Previously Presented) A system for monitoring a factory process, the factory process comprising a plurality of tasks, a system comprising:

means for displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole;

means for selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, computer-generated representation of the respective task;

means for sensing a status of a plurality of the tasks;

means for determining if the sensed status of each of the plurality of tasks is acceptable; and

means for automatically displaying the task if the sensed status is not acceptable.

48. (Currently Amended) A system for monitoring a factory process, the factory process comprising a plurality of tasks, a system comprising:

means for displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole;

means for selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, computer generated representation of the respective task;

means for sensing a status of a plurality of the tasks; ~~and~~

means for determining if the sensed status of each of the plurality of tasks is acceptable; and

means for automatically displaying one of the plurality of tasks if the sensed status of the one is determined not to be acceptable.

49. (Canceled)

50. (Canceled)

51. (Canceled)

52. (Canceled)

53. (Canceled)

54. (Currently Amended) For a factory process comprising a plurality of tasks, wherein both the factory process and the tasks include controllable parameters, a method to permit monitoring and control of the process, the method comprising:

displaying the factory process in real-time as a

three-dimensional, free-camera, computer generated representation of the process as a whole;

selectively displaying data representative of a status of the displayed process;

selectively controlling the factory process parameter;

selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, computer generated representation of the respective tasks;

selectively displaying data representative of a status of a plurality of the displayed tasks;

selectively controlling the controllable parameter of the each of the tasks;

sensing a status of one of the tasks;

determining if the sensed status is acceptable; and

automatically displaying the task if the sensed status is not acceptable.

55. (Currently Amended) For a factory process comprising a plurality of tasks, wherein both the factory process and the tasks include controllable parameters, a method to permit monitoring and control of the process, the method comprising:

displaying the factory process in real-time as a three-dimensional, free-camera, computer generated representation of the process as a whole;

selectively displaying data representative of a status of the displayed process;

selectively controlling the factory process parameter;

selectively displaying each of the tasks in real-time as a three-dimensional, free-camera, computer generated representation

of the respective tasks;

selectively displaying data representative of a status of a plurality of the displayed tasks;

selectively controlling the controllable parameter of the each of the tasks;

sensing a status of one of the tasks;

determining if the sensed status of each of the plurality of tasks is acceptable; and

automatically displaying one of the plurality of tasks if the sensed status of the one is determined not to be acceptable.